

Idemitsu Kosan Xarec® EA 528 SPS, 30% Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS) , Syndiotactic Polystyrene (SPS) with Glass or Carbon Fiber

Material Notes:

Crystalline Polymer, Glass Filled, Ignition Resistant, Impact Modified. Used in Electronic and Electrical applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_Idemitsu-Kosan-Xarec-EA-528-SPS-30-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183 B
Filler Content	30 %	30 %	Glass
Water Absorption	0.090 %	0.090 %	24 hours
Linear Mold Shrinkage	0.0015 - 0.0030 cm/cm @Thickness 2.00 mm	0.0015 - 0.0030 in/in @Thickness 0.0787 in	ISO 294
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm @Thickness 2.00 mm	0.0070 - 0.0090 in/in @Thickness 0.0787 in	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	10.4 GPa	1510 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO 180/1U
Charpy Impact Unnotched	3.90 J/cm ² @Temperature 23.0 °C	18.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.900 J/cm ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
	18.0 µm/m-°C	10.0 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	255 °C	491 °F	ISO 75B
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75-2
Vicat Softening Point	255 °C	491 °F	A/10N; ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Oxygen Index	28 %	28 %	ISO 4589-1984
Glow Wire Test	960 °C @Thickness 1.00 mm	1760 °F @Thickness 0.0394 in	IEC 695-2-1
	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	IEC 695-2-1
	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	IEC 695-2-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+18 ohm-cm	1.30e+18 ohm-cm	ASTM D257
Dielectric Constant	3.2 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	31.0 kV/mm @Thickness 0.800 mm	787 kV/in @Thickness 0.0315 in	ASTM D149
Dissipation Factor	0.0020 @Frequency 1e+6 Hz	0.0020 @Frequency 1e+6 Hz	ASTM D150
Comparative Tracking Index	425 V	425 V	Solution A; IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	285 - 310 °C	545 - 590 °F	pre-drying not required
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
	140 - 155 °C	284 - 311 °F	for optimal gloss and heat resistance

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China